IN THE CLAIMS

Please amend the claims as follows:

- 1. (CURRENTLY AMENDED) An analog front end apparatus, comprising:
- a) a transmit block coupled to transmit discrete multitone modulated upstream data to a subscriber line, wherein the transmit block digitally filters the upstream data;
- b) a hybrid network coupled to the subscriber line and the transmit block; and
- c) a receive block coupled to the hybrid for receiving discrete multitone modulated downstream data from the subscriber line, wherein the transmit block, hybrid network, and receive block reside within a same integrated circuit package.
- 2. (ORIGINAL) The apparatus of claim 1 wherein the hybrid is a first order hybrid network.
- 3. (ORIGINAL) The apparatus of claim 1 wherein the hybrid is tunable.
- 4. (ORIGINAL) The apparatus of claim 1 wherein the hybrid is DC isolated from the transmit and receive blocks of the analog front end.

- 5. (ORIGINAL) The apparatus of claim 1 wherein the transmit block further comprises:
- i) a first interpolator coupled to interpolate the upstream data from a first clock rate to a second clock rate greater than the first clock rate;
- ii) a power spectral density shaping filter coupled to shape the power spectrum of the interpolated upstream data; and
- iii) a second interpolator coupled to interpolate the shaped signal to a third clock rate greater than the second clock rate.
- 6. (ORIGINAL) The apparatus of claim 1 wherein the transmit block, hybrid network, and receive block are fabricated on a same integrated substrate to form a complementary metal oxide semiconductor (CMOS) integrated circuit.

7. (ORIGINAL) A method comprising the steps of:

- a) receiving a discrete multitone modulated upstream data signal at a first clock rate, *c1*;
 - b) interpolating the upstream signal to a second clock rate c2 > c1.
- c) processing the interpolated signal through a power shaping power spectral density shaping filter;
- d) interpolating the power shaped signal to a third clock rate c3 > c2; and
 - e) converting the twice interpolated signal to an analog signal.

- 8. (ORIGINAL) The method of claim 7 further comprising the step of preprocessing the received upstream data signal to substantially eliminate even images.
- 9. (ORIGINAL) The method of claim 5 wherein c2 = 1.104 MHz.
- 10. (ORIGINAL) The method of claim 5 wherein c3 = 35.328 MHz.
- 11. (WITHDRAWN) A method comprising the steps of:
- a) passing a composite signal containing discrete multitone modulated upstream and downstream data signals through a hybrid to extract the downstream data signal;
- b) filtering the composite signal through a high pass filter having a corner frequency, f1;
- c) filtering the high pass filtered signal through a low pass filter having a corner frequency f2 > f1; and
- d) converting the twice filtered downstream data signal to a digital signal.
- 12. (WITHDRAWN) The method of claim 11 further comprising the steps of:
- e) decimating the digital signal from a first rate c1 to a second rate c2, wherein c2 < c1;
 - f) filtering the decimated signal with an anti-aliasing low pass filter;
 - g) decimating the anti-aliased signal to a third rate c3; and

h) filtering the twice decimated signal with second high pass filter.

13. (WITHDRAWN) The method of claim 12 wherein c2 = 8.836 MHz.

14. (WITHDRAWN) The method of claim 12 wherein c3 = 2.208 MHz.